

Current Locations of  
Spent Nuclear Fuel and High-Level Radioactive Waste  
Destined for Geologic Disposal

State	Commercial Reactors <sup>1,2,3</sup>	Non-DOE Research Reactors <sup>2,4,5,6</sup>	Navy Reactor Fuel <sup>4,7</sup>	DOE-Owned Spent Fuel and High-Level Radioactive Waste <sup>3,4</sup>	Surplus Plutonium <sup>8</sup>
Alabama	Browns Ferry 1, 2, 3 (Decatur) Farley 1, 2 (Dothan)				
Arizona	Palo Verde 1, 2, 3 (Wintersburg)	University of Arizona (Tucson)			
Arkansas	Arkansas Nuclear 1, 2 (Russellville)				
California	Diablo Canyon 1, 2 (Avila Beach) <b>Rancho Seco 1*</b> (Ione) <b>San Onofre 1*</b> , 2, 3 (San Clemente) Humboldt Bay 3* (Eureka)	University of California (Irvine) General Electric (Pleasanton) McClellan Air Force Base (Sacramento) <b>General Atomics</b> - <b>MARK I*</b> - <b>MARK F*</b> (San Diego) Aerotest Research (San Ramon)			
Colorado		U.S. Geological Survey (Denver)		<b>Fort St. Vrain*</b> (Platteville)	Rocky Flats Environmental Technology Site (Golden)
Connecticut	<b>Haddam Neck*</b> (Haddam) <b>Millstone 1*</b> , 2, 3 (Waterford)				
Florida	Crystal River 3 (Red Level) St. Lucie 1, 2 (Hutchinson Island) Turkey Point 3, 4 (Florida City)	University of Florida (Gainesville)			
Georgia	Hatch 1, 2 (Baxley) Vogtle 1, 2 (Waynesboro)				

\* **Shutdown reactors with spent nuclear fuel on site**

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Idaho		Idaho State University (Pocatello)	Naval Reactors Facility (Idaho Falls)	Idaho National Engineering and Environmental Laboratory (Idaho Falls) <i>including</i> Argonne National Laboratory-West (Idaho Falls)	Idaho National Engineering and Environmental Laboratory (Idaho Falls)
Illinois	Clinton 1 (Clinton) Quad Cities 1, 2 (Cordova) Braidwood 1, 2 (Braidwood) <b>Zion 1*, 2*</b> (Zion) Byron 1, 2 (Byron) <b>Dresden 1*, 2, 3</b> (Morris) LaSalle County 1, 2 (Seneca) <i>General Electric**</i> (Morris)	<b>University of Illinois</b> - <b>Triga*</b> - <b>Lopra*</b> (Urbana)		Argonne National Laboratory – East (Argonne)	
Indiana		Purdue University (West Lafayette)			
Iowa	Duane Arnold (Palo)	<b>Iowa State University*</b> (Ames)			
Kansas	Wolf Creek (Burlington)	Kansas State University (Manhattan)			
Louisiana	Waterford 3 (Taft) River Bend 1 (St. Francisville)				
Maine	<b>Maine Yankee*</b> (Wiscasset)				

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**\*\*Commercial spent fuel storage site**

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<b>Maryland</b>	Calvert Cliffs 1, 2 (Lusby)	University of Maryland (College Park) National Institute of Standards and Technology (Gaithersburg) Armed Forces Radiobiology Research Institute (Bethesda) U.S. Army Aberdeen Proving Grounds (Aberdeen)			
<b>Massachusetts</b>	Pilgrim 1 (Plymouth) <b>Yankee-Rowe*</b> (Rowe)	University of Lowell (Lowell) Massachusetts Institute of Technology (Cambridge) Worcester Polytechnic Institute (Worcester)			
<b>Michigan</b>	Enrico Fermi 2 (Newport) Cook 1, 2 (Bridgeman) Palisades (South Haven) <b>Big Rock Point*</b> (Charlevoix)	University of Michigan (Ann Arbor) Dow Chemical Company (Midland)			
<b>Minnesota</b>	Monticello (Monticello) Prairie Island 1, 2 (Red Wing)				
<b>Mississippi</b>	Grand Gulf (Port Gibson)				
<b>Missouri</b>	Callaway 1 (Fulton)	University of Missouri (Columbia) University of Missouri (Rolla)			
<b>Nebraska</b>	Cooper (Brownville) Fort Calhoun (Fort Calhoun)	Veterans Administration (Omaha)			
<b>New Hampshire</b>	Seabrook (Seabrook)				

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New Jersey	Oyster Creek (Forked River) Salem 1, 2 (Lower Alloways) Hope Creek (Lower Alloways)				
New Mexico		University of New Mexico (Albuquerque) White Sands Missile Range (White Sands)		Sandia National Laboratory (Albuquerque)	Los Alamos National Laboratory (Albuquerque)
New York	Nine Mile Point 1, 2 (Scriba) <b>Indian Point 1*</b> , 2 (Buchanan) Indian Point 3 (Buchanan) FitzPatrick (Scriba) Ginna (Ontario)	<b>State University of New York*</b> (Buffalo) Cornell University - TRIGA Mark II - Zero Power* (Ithaca) <b>Manhattan College*</b> (Bronx) Rensselaer Polytechnic Institute (Troy)		Brookhaven National Laboratory, <i>including</i> - High-Flux Beam Reactor - Brookhaven Medical Research Reactor (Upton)  <i>West Valley Demonstration Project**</i> (West Valley)	
North Carolina	Brunswick 1, 2 (Southport) Harris (New Hill) McGuire 1, 2 (Cornelius)	North Carolina State University (Raleigh)			
Ohio	Davis-Besse (Oak Harbor) Perry (Perry)	Ohio State University (Columbus)			
Oregon	<b>Trojan*</b> (Prescott)	Oregon State University (Corvallis) Reed College (Portland)			

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**\*\*SNF at West Valley is owned by DOE; West Valley High-Level Waste is currently owned by New York State Energy and Research Development Authority (NYSERDA)**

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Pennsylvania	Susquehanna 1, 2 (Berwick) Limerick 1, 2 (Pottstown) Peach Bottom 2, 3 (Delta) Three Mile Island 1 (Middletown) Beaver Valley 1, 2 (Shippingport)	Pennsylvania State University (University Park)			
Rhode Island		Rhode Island Atomic Energy Commission (Narragansett)			
South Carolina	Robinson 2 (Hartsville) Catawba 1, 2 (Clover) Oconee 1, 2, 3 (Seneca) Summer (Parr)			Savannah River Site (Aiken)	
Tennessee	Sequoyah 1, 2 (Soddy Daisy) Watts Bar (Spring City)			Oak Ridge National Laboratory (Oak Ridge)	
Texas	Comanche Peak 1, 2 (Glen Rose) South Texas Project 1, 2 (Palacios)	Texas A&M University (2) - AGN-201M - TRIGA (College Station) University of Texas (Austin)			
Utah		University of Utah (Salt Lake City)			
Vermont	Vermont Yankee (Vernon)				
Virginia	North Anna 1, 2 (Mineral) Surry 1, 2 (Gravel Neck) BWX Technologies, Inc.** (Lynchburg) (not at-reactor storage)	University of Virginia* (Charlottesville)		BWX Technologies, Inc. (Lynchburg)	

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\*\*Fragmentary amounts of commercial fuel stored on site

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Washington	Washington Nuclear Power 2 (Richland)	Washington State University (Pullman)		Hanford Reservation (Richland)	Hanford Reservation (Richland)
Wisconsin	Point Beach 1, 2 (Two Creeks) Kewaunee (Carlton) <b>LaCrosse*</b> (Genoa)	University of Wisconsin (Madison)			

Total numbers of:					
Locations	118*** (of which 14 shutdown)	47 (of which 9 shutdown)	1	11	6
Sites	72*** (of which 9 completely shutdown)	43 (of which 6 completely shutdown)	1	10	6
States	33	26	1	9	6

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\*\*\*Two not-at-reactor commercial SNF storage locations, i.e., Morris and BWX Lynchburg, not counted in these totals. The following reactors are considered to be co-located (i.e. at the same site): Fitzpatrick/Nine Mile Point; Hope Creek/Salem; and Indian Point 1, 2 and 3.

### References

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- 5 Michaels, Ted, Nuclear Regulatory Commission, White Flint, MD, October 1999. Interview.
- 6 Eckles, Jim, Public Affairs Office, White Sands Missile Range, NM. Interview.
- 7 Smyder, Jim, Naval Reactors, U.S. Department of Energy, Las Vegas, NV, September 1999. Interview.
- 8 U.S. Department of Energy, "Surplus Plutonium Disposition Draft Environmental Impact Statement," DOE/EIS-0283D, Office of Fissile Materials Disposition, Washington, DC, July 1998.